

ABSTRACT OF THE DISCLOSURE

A measurement device includes a laser or other light source for producing a light beam, and optics that split the light beam into a plurality of differentiable beam portions, such as a plurality of polarized beams. The optics also direct the differentiable beam portions toward a target to be measured. The measurement device also includes a detection component, such as a plurality of position sensitive detectors, positioned to intercept images created by simultaneous incidence of the differentiable beam portions on the target. The data collected by the detection component is used to calculate measurement data related to the target. When used with a head suspension target, displacement of various regions of the head suspension may be measured relative to a reference region, such as the mounting region of the head suspension.

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